



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Steven Roberds, et al.

Serial No.: 09/852,386

Filing Date: May 10, 2001

For: HUMAN ION CHANNELS

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

DATE OF DEPOSIT: AUGUS 1- 2001

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAIDON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231.

VPED NAME: Gwilym J.O. Attwell REGISTRATION NO.: 45,449

Assistant Commissioner for Patents Washington DC 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

	In accordance with §1.129(a), this Information Disclosure Statement is being					
	filed in connection with \square the first or \square second After Final Submission,					
	therefore:					
	☐ Certification in Accordance with §1.97(e) is attached; or					
	\square The fee of §180.00 as set forth in §1.17(p) is attached.					
	In accordance with §1.97(c), this Information Disclosure Statement is being filed					
	after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or before an action that otherwise closes prosecution in the application, therefore: Certification in Accordance with §1.97(e) is attached; or					
	The fee of $$180.00$ as set forth in $$1.17(p)$ is attached.					
	In accordance with §1.97(d), this Information Disclosure Statement is being filed					
٠.	after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); and the submission fee of §180.00 as set forth in §1.17(p).					
	Copies of each of the references listed on the attached Form PTO-1449 are					
	enclosed herewith.					
\boxtimes	Copies of references listed on the attached Form PTO-1449 are enclosed herewith					
	EXCEPT THAT:					

In view of the voluminous nature of references AH-AI, AN, AX, BC, BF, BM, BW, BY, BZ, CB, CL, DG, DJ, DX, EF, and ES, and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.

DOCKET NO.: PHRM-0325 (00133.US1) - 3 -

PATENT

In accordance with §1.98(d), copies of the following references listed on
the attached Form PTO-1449 are not enclosed herewith because they were
previously cited by or submitted to the U.S. Patent and Trademark Office
in patent application(s) for which a claim for priority under 35
U.S.C.§120 have been made in the instant application:

Copies of references [list as appropriate] listed on the attached Form

PTO-1449 were previously cited by or submitted to the Patent and

Trademark Office in prior application Serial No. , filed .

If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date:

August 21, 2001

Gwilym J.O. Attwell Registration No. 45.449

WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor Philadelphia, PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439

© 2000 WWKMN

				Sheet 1 of 14		
	Form	PTO 1449 Modified		Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386	
	List of Patent and Publications Cited by Applicant (Use several sheets if necessary)			Applicant Steven L. Roberds, e	t al.	
	U.S. Department of Commerce Patent and Trademark Office			Filing Date May 10, 2001	Group Not Yet Assigned	
	ОТНІ	ER DOCUMENTS (Including Aut	hor	, Title, Date, Pertiner	t Pages, Etc.)	
	AA	Akane, A., et al., "direct dideoxy s PCR," Biotechniques, 1994, 16(2)				
	AB	Altschul, S. F., et al., "Gapped BL database search programs," Nuclei	AS ic A	T and PSI-BLAST: a scids Research, 1997 , 2	new generation of protein 25(17), 3389-3402	
	AC Altschul, S. F., et al., "Basic local alignment search tool," J. Mol. Biol., 403-410			Mol. Biol., 1990, 215,		
	AD	AD American Veterinary Medical Association, Report of the American Veterinary Medical Assoc., Panel on Euthanasia, Journal of American Veterinary Medical Ass. 1993, 202, 229-249				
	AE	AE Anderson, W.F., "Human gene therapy," <i>Nature</i> , Supplement to <i>Vol. 392(66</i> 1998, 25-30			nt to <i>Vol. 392(6679)</i> ,	
	AF Anderson, W. F., "Human gene the			rapy," Science, 1992, 256, 808-813		
	AG	Aukrust, P., et al., "Enhanced leve patients with unstable angina; Posi involvement in the pathogenesis of 100, 614-620	sibl	e Reflection of T lymp	hocyte and platelet	
*	АН	Ausubel, F. M., et al., Short Protocols in Molecular Biology, 4th Ed., 1992, Greene & Wiley-Interscience, New York				
*	AI	Ausubel, et al. (Eds.), Current Protocols in Molecular Biology, New York, 1987-1999, John Wiley & Sons, Inc.				
	AJ	Ausubel, et al. (Eds.), "Chapter 6, Protocols in Molecular Biology, 1				
	AK	Baindur, N., et al., "Selective fluorescent ligands for pharmacological receptors," Drug Dev. Res., 1994, 33, 373-398				
EXAM	INER			DATE CONSIDERI	ED	

^{*} A copy of these references will not be forwarded to the U.S. Patent and Trademark Office since they are believed to be too voluminous and easily obtainable by the Examiner.

Form PTO 1449 Modified	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386		
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)	Applicant Steven L. Roberds, et al.			
U.S. Department of Commerce Patent and Trademark Office	Filing Date May 10, 2001	Group Not Yet Assigned		
OTHER DOCUMENTS (Including Auth	or, Title, Date, Perti	nent Pages, Etc.)		
AL Bang, H., et al., "TREK-2, a new m channel family," J. Biological Chem	nember of the mechanian, 275(23), 2000 , 174	osensitive tandem-pore K+ 412-17419		
AM Benoist C., et al., "In vivo sequence Nature, 1981, 290, 304-310	requirements of the S	SV40 early promoter region,"		
	Berger, et al., <i>Guide to Molecular Cloning Techniques</i> , Methods in Enzymology 152 1987, Academic Press, Inc., San Diego, CA			
protein-coupled receptors for high t	protein-coupled receptors for high throughput screening: Pharmacological characterization of the immobilized CCR5 receptor on FlashPlate®," J. Biomolecular			
	Breeden, L., et al., "Regulation of the yeast HO gene," Cold Spring Harb. Symp. Quant. Biol., 1985, Vol. L, Molecular Biology of Development, 643-650			
AQ Van Broeck, J.J.M, "G-protein-co- 1996, 164, 189-268	AQ Van Broeck, J.J.M, "G-protein-coupled receptors in insect cells," Int. Rev. Cytological Company of the Company of the Company of the Cytological Cytological Company of the Cytological Cyt			
AR Cane, D. E., et al., "Harnessing the and Mutations," Science, Oct. 1998		Combinations, Permutations,		
AS Capecchi, M. R., "Altering the general 1989, 244, 1288-1292	Capecchi, M. R., "Altering the genome by homologous recombination," <i>Science</i> , 1989 , <i>244</i> , 1288-1292			
	proteolytic activation of protease-activated receptor 1," Biochem J., 1998, 333, 121-			
AU Choo, Y., et al., "Promoter-specific bacteriophage-selected zinc fingers				
EXAMINER	DATE CONSIDI	ERED		

^{*} A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

_	E.	at de		Sheet 3 of 14	
	Form	PTO-1449 Modified	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386	
	List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Steven L. Roberds, et al.		
		Department of Commerce and Trademark Office	Filing Date May 10, 2001	Group Not Yet Assigned	
	ОТНЕ	ER DOCUMENTS (Including Autho	or, Title, Date, Pertine	nt Pages, Etc.)	
	AV	Cicala, C., et al., "Bronchoconstrictor activating peptide in guinea-pigs in			
	AW	Cirino, G., et al., "Thrombin function activation of its receptor," J. Exp. M.			
*	AX	AX Cobbold, et al., "Aequorin measurements of cytoplasmic free calcium," <i>In</i> : McCormack J.G., et al. (Eds.), <i>Cellular Calcium: A Practical Approach</i> , 1991 , Oxford, IRL Press			
	AY	Colotta, F., et al., "Expression of monocyte chemotactic protein-1 by monocytes a endothelial cells exposed to thrombin," <i>Am. J. Pathol</i> , 1994 , <i>144</i> , 975-985			
	AZ	Conley, E.C., "The Ion Channels FactsBook, Extracellular Ligand-Gated Channels, Academic Press, London and San Diego, 1995, page 426			
	ВА	Cosman, D., et al., "High Level Stabin Mouse Cells Generates only Low <i>Immunol.</i> , 1986 , <i>23(9)</i> , 935-941			
	ВВ	Cosman, D., et al., "Cloning sequence receptor," Nature, 1984, 312, 768	ce and expression of hu	uman interleukin-2	
*	ВС	Current Protocols in Moelcular Biol	ogy, John Wiley & Son	s, NY, 1999	
	BD	Cutting, G. R., "Cloning of the γ-am receptor subunit highly expressed in 1991 , 88, 2673-2677	•		
	ВЕ	Dayoff, in Atlas of Protein Sequence Research Foundation, Washington,		National Biochemical	
*	BF	Di Wallis (Ed.), "Electrophysiology University Press, 1993	, A Practical Approach	," IRL Press at Oxford	
	BG	DiCuccio, M. N., et al., "A function human hematopoietic progenitor cel			
EXAM	IINER		DATE CONSIDER	RED	
		·			

^{*} A copy of these references will not be forwarded to the U.S. Patent and Trademark Office since they are believed to be too voluminous and easily obtainable by the Examiner.

	1 3 1 1 3 1 1 3 1 1 1 1 1 1 1 1 1 1		Sheet 4 of 14	
	Form PTO-1449 Modified		Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386
		f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Steven L. Roberd	s, et al.
		Department of Commerce nt and Trademark Office	Filing Date May 10, 2001	Group Not Yet Assigned
_	ОТН	ER DOCUMENTS (Including Author	r, Title, Date, Perti	nent Pages, Etc.)
	ВН	Donovan, F. M., et al., "Thrombin in astrocytes via a pathway requiring type 1997, 17(14), 5316-5326		
	ВІ	Douglas, A. M., et al., "Direct sequencing of double-stranded PCR products incorporating a chemiluminescent detection procedure," <i>Biotechniques</i> , 1993 , <i>14</i> , 824-828		
	ВЈ	Drmanac, R., et al., "DNA Sequence Determination by Hybridization A Strategy for Efficient Large-Scale Sequencing," <i>Science</i> , 1993 , <i>260</i> , 1649-1652 (sequencing by hybridization)		
	ВК	Drmanac, S., et al., "Accurate sequencing by hybridization for DNA diagnostics and individual genomics," <i>Nature Biotechnology</i> , 1998 , <i>16</i> , 54-58		
	BL	Dunlop, J., et al., "Characterization of 5-HT _{1A} receptor functional coupling in cells expressing the human 5-HT _{1A} receptor as assessed with the cytosensor microphysiometer," <i>J. Pharmacological and Toxicological Methods</i> , 1998 , <i>40(1)</i> , 47-55		
*	ВМ	Eisenthal, R., et al. (Eds.) In Enzyme Assays, A Practical Approach, 1992, Oxford University Press		
	BN	Fields, S., et al., "The two-hybrid system: an assay for protein-protein interactions," Trends in Genetics, 1994, 10(8), 286-292		
	ВО	Fields, S., et al., "A novel genetic system to detect protein-protein interactions," <i>Nature</i> , 1989 , <i>340</i> , 245-246		
EXAM	INER		DATE CONSIDE	ERED

^{*} A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

Sheet 5 of 14

W			Sheet 5 of 14	
Form	PTO-1449 Modified	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386	
C	Patent and Publications Cited by Applicant veral sheets if necessary)	Applicant Steven L. Roberds,	et al.	
	epartment of Commerce and Trademark Office	Filing Date May 10, 2001	Group Not Yet Assigned	
ОТНЕ	R DOCUMENTS (Including Author	r, Title, Date, Pertine	nt Pages, Etc.)	
ВР	Fink, M. et al., "Cloning, functional eunconventional outward rectifier K ⁺ 6854-6862			
BQ	BQ Fischer, S. G., et al., "DNA fragments differing by single base-pair substitution separated in denaturing gradient gels: Correspondence with melting theory," Property Natl. Acad. Sci. USA, 1983, 80, 1579-1583			
BR	Friedmann, T., "Progress toward human gene therapy," Science, 1989, 244, 1275-1281			
BS	Gerhardt, C. C., et al., "Functional characteristics of heterologously expressed 5-HT receptors," Eur. J. Pharmacology, 1997, 334, 1-23			
ВТ	BT Gill, J. S., et al., "Thrombin induced inhibition of neurite outgrowth from dorsal roganglion neurons," <i>Brain Res.</i> , 1998, 797, 321-327			
BU	Grabham, P., et al., Thrombin receptor and reversal of stellation by distinct prophosphorylation," J. Neurochem, 199	athways: involvement		
BV	Greisman, H. A., et al., "A general strategy for selecting high-affinity zinc finger proteins for diverse DNA target sites," <i>Science</i> , 1997 , <i>275</i> , 657-661			
* BW	Harlow, et al. (Eds.), Antibodies A Laboratory Manual, 1988, Cold Spring Harbor Laboratory; Cold Spring Harbor, New York			
BX	Hauck, R. W., et al., "α-thrombin stimulates contraction of human bronchial rings by activation of protease-activated receptors," Am J. Physiol, 1999, 277, L22-L29			
* BY	Haugland, Handbook of Fluorescent probes and Research Chemicals, 6 th Ed., 1996, Eugene OR: Molecular Probes			
EXAMINER		DATE CONSIDER	ED	

^{*} A copy of these references will not be forwarded to the U.S. Patent and Trademark Office since they are believed to be too voluminous and easily obtainable by the Examiner.

W.	e RET			Sheet o of 14	
	Form	PTO-1449 Modified	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386	
,	(f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Steven L. Roberds, et al.		
		Department of Commerce at and Trademark Office	Filing Date May 10, 2001	Group Not Yet Assigned	
	ОТНЕ	CR DOCUMENTS (Including Author	or, Title, Date, Perti	nent Pages, Etc.)	
* BZ Hendrix, R.W., Ed., Lambda II, 1980, Cold Spring Harbor Press, Cold Spring NY			or Press, Cold Spring Harbor,		
	CA	Henikoff, S., et al., "Amino acid substitution matrices from protein blocks," <i>Proc. Natl. Acad. Sci. USA</i> , 1992 , <i>89</i> , 10915-10919			
*	СВ	Hershey, A. D., (Ed.), <i>The Bacteriophage Lambda</i> , 1973 , Cold Spring Harbor Press, Cold Spring Harbor, New York			
	СС	Hill, D. C., "Trends in development of high-throughput screening technologies for rapid discovery of novel drugs," Cur. Opinion Drug Disc. Dev., 1998, 1(1), 92-97			
	CD	Hodgson, J., "Receptor screening and the search for new pharmacteuticals," <i>Bio/Technology</i> , 1992, <i>10</i> , 973-980			
	CE	Hoffman, M., et al., "Thrombin enhances monocyte secretion of tumor necrosis factor and interleukin-1 beta by two distinct mechanisms," <i>Blood Cells Mol Dis</i> , 1995 , <i>21</i> , 156-167			
	CF	Jan, L. Y. et al., "Voltage-gated and inwardly rectifying potassium channels," J. of Physiology, 1997, 505(2), 267-282			
	CG Jayawickreme, C. K., et al., "Gene expression systems in the development of h throughput screens, Current Opinion in Biotechnology, 1997, 8, 629-634				
	CH Karlin, S., et al., "Applications and statistics for multiple high-scoring segments in molecular sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 1993, 90, 5873-5787				
EXAM	INER		DATE CONSIDI	ERED	

^{*} A copy of these references will not be forwarded to the U.S. Patent and Trademark Office since they are believed to be too voluminous and easily obtainable by the Examiner.

W.	36.53			Sheet 7 of 14
W. A. THU	Form	PTO-1449 Modified	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386
		f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Steven L. Roberds, et al.	
		Department of Commerce at and Trademark Office	Filing Date May 10, 2001	Group Not Yet Assigned
	ОТНЕ	CR DOCUMENTS (Including Autho	r, Title, Date, Pertine	nt Pages, Etc.)
	CI	Kieleczawa, J., et al., "DNA sequence hexamers," Science, 1992, 258, 1787		with strings of contiguous
	CJ	Kim, J., et al., "Design of TATA box regulation of gene expression," <i>Proc</i>		
	CK	Krogh, A. et al., "Hidden Markov Models in Computational Biology," J. Mol. Biol., 1994, 253, 1501-1531		
*	CL Kruse et al. (eds.), in Tissue Culture, Academic Press, 1973		3	
	СМ	Kuntzweiler, T. A., et al., "Rapid assessment of ligand actions with nicotinic acetylcholine receptors using calcium dynamics and FLIPR," <i>Drug Development Research</i> , 1998 , <i>44(1)</i> , 14-20		
	CN	Lehninger, "Chapter 4, The amino acid building blocks of proteins," <i>Biochemistry</i> , 2 Ed., 1975, Worth Publishers, Inc., New York, New York, 71-77		
	СО	Lesage F., et al., "Potassium ion cha diseases," in Current Topics in Mem 222		
	СР	CP Levin, E. D. et al., "AR-R 17779, an α 7 nicotinic agonist, improves learning and memory in rats," <i>Behavioural Pharmacology</i> , 1999 , 10 (6/7), 675-780		
	CQ	Lin, A. H., et al., "The oxazolidinon and competes with binding of chlora Agents and Chemotherapy, 1997, 41	imphenicol and lincom	
	CR	Liu, Q., et al., "Design of polydactyl complex genomes," <i>Proc. Natl. Acad</i>		
*	CS	Lodish, H., et al., Molecular Cell Bi	ology, 3 rd Ed., 1995	
EXAMI	INER		DATE CONSIDER	RED
			IIC Detend and Trade	1 0 00 1 1

^{*} A copy of these references will not be forwarded to the U.S. Patent and Trademark Office since they are believed to be too voluminous and easily obtainable by the Examiner.

				Sheet 8 of 14
RADENATORM	PTO-1449 Modified	l	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386
	f Patent and Publications Cited by Applicant everal sheets if necessary)		Applicant Steven L. Roberds,	et al.
	Department of Commerce nt and Trademark Office		Filing Date May 10, 2001	Group Not Yet Assigned
ОТНІ	ER DOCUMENTS (Including Aut	hor,	Title, Date, Pertino	ent Pages, Etc.)
СТ	Luckow, V. A., et al., "Trends in t Bio/Technology, 1988, 6, 47-55	he d	evelopment of bacul	ovirus expression vectors,"
CU	Luckow, V. A., et al., "High Level Expression of Nonfused Foreign Genes with Autographa californica Nuclear Polyhedrosis Virus Expression Vectors," <i>Virology</i> , 1989 , <i>170</i> , 31-39			d Foreign Genes with sion Vectors," Virology,
CV	Mahajan, N. P. et al., "Bcl-2 and Bax interactions in mitochondria probed with green fluorescent protein and fluorescence resonance energy transfer," <i>Nature Biotechnology</i> , June 1998 , <i>16</i> , 547-552			
CW	Maxam, A. M., et al., "Sequencing end-labeled DNA with bse-secific chemical cleavages", <i>Meth. Enzymol.</i> , 1977 , Vol. 65, 499-560			bse-secific chemical
CX	McColl, D. J., et al., "Structure-based design of an RNA-binding zinc finger", Proc. Natl. Acad. Sci. (USA), 1997, Vol. 96, 9521-9526			inding zinc finger", Proc.
СУ	Miller, A. D., "Human gene therapy comes of age", Nature, 1992, Vol. 357, pp. 455-460			
CZ	Mirzabekov, A. D., "DNA sequencing by hybridization - A megasequencing method and a diagnostic tool?", TIBTECH, 1994, Vol. 12, 27-32			
DA	DA Morris, R., et al., "Thrombin receptor expression in rheumatoid and osteoarthritic synovial tissue", Ann. Rheum. Dis., 1996, Vol. 55, 841-843			
DB	DB Murphy, A. J., et al., "From DNA to drugs: the orphan G-protein coupled receptors, Cur. Opinion Drug Disc. Dev., 1998, 1(2), 192-199			protein coupled receptors,"
EXAMINER			DATE CONSIDEI	RED

E	4			Sheet 9 of 14
Orm PTO-1449 Modified		Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Cited by Applicant	Applicant Steven L. Roberds, et al.	
U.S. Department of Commerce Patent and Trademark Office			Filing Date May 10, 2001	Group Not Yet Assigned
	ОТНЕ	ER DOCUMENTS (Including Autho	r, Title, Date, Pertine	nt Pages, Etc.)
	DC	Myers, R. M., et al., "Detection of sin at mismatches in RNA: DNA duplex	ngle base substitutions es", Science, 1985, Vo	by ribonuclease cleavage ol. 230,1242-1246
	DD	DD Myers, P., "Will combinatorial chemistry deliver real medicines," <i>Curr. Opin. Biotechnology</i> , 1997 , <i>8</i> , 701-707		
	DE	Nakayama, G. R., "Microplate assays for high-throughput screening," Cur. Opinion Drug Disc. Dev., 1998, 1(1), 85-91		
	DF	National Center for Biotechnology Information (http://www.ncbi.nlm.nih.gov/)		
*	DG	O'Rielly, et al. (Eds.), Baculovirus Expression Vectors: A Laboratory Manual, 1992, W.H. Freeman and Company, New York		
	DH			
	DI	Orita, M., et al., "Detection of polymorphisms of human DNA by gel electrophoresis as single-strand conformation polymorphisms," <i>Proc. Natl. Acad. Sci. USA</i> , 1989 , <i>86</i> , 2766-2770		
*	DJ	Osol, A. (Ed.), Remington's Pharma	ceutical Sciences, 16 th	Ed., 1980
	DK	Parodi, L. A., et al., "A consensus procedure for predicting the location of α-helical transmembrane segments in proteins," <i>Comput. Appl. Biosci.</i> , 1994 , 10(5), 527-535		
EXAM	IINER		DATE CONSIDER	RED

^{*} A copy of these references will not be forwarded to the U.S. Patent and Trademark Office since they are believed to be too voluminous and easily obtainable by the Examiner.

BATEN	AUG 2 4 2001
•	RADEWorm

HADE WORM	PADE Form PTO-1449 Modified		Serial No. 09/852,386	
•	List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Steven L. Roberds, et al.	
	U.S. Department of Commerce Patent and Trademark Office		Group Not Yet Assigned	
ОТНЕ	R DOCUMENTS (Including Autho	r, Title, Date, Pertine	ent Pages, Etc.)	
DL	Pastinen, T., et al., "Minisequencing: diagnostics on oligonucleotide arrays			
DM	Patel, A.J., et al., "Inhalational anesthetics activate two-pore-domain background K+ channels," <i>Nature Neuroscience</i> , 1999 , <i>2(5)</i> , 422-426			
DN	Pausch, M. H., "G-protein-coupled receptors in saccharomyces cerevisiae: high-throughput screening assays for drug discovery," <i>Trends in Biotechnology</i> , 1997 , <i>15</i> , 487-494			
DO	Pease, A. C., et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," <i>Proc. Natl. Acad. Sci. USA</i> , 1994 , <i>91</i> , 5022-5026			
DP	Pindon, A., et al., "Thrombin-induced reversal if astricyte stellation is mediated by activation of protein kinase C β -1," Eur. J. Biochem., 1998 , 255, 766-774			
DQ	Rajan, S., et al., "THIK-1 and THIK-2, a novel subfamily of tandem pore domain K+," <i>J. Biol. Chem.</i> , 2001 , <i>276(10)</i> , 7302-7311			
DR	Ramsay, G., "DNA chips: state-of-the-art," Nature Biotechnology, 1999, 16, 40-4			
DS	Riesner, D., et al., "Temperature-gradient gel electrophoresis of nucleic acids: Analysis of conformational transitions, sequence variations, and protein-nucleic acid interactions," <i>Electrophoresis</i> , 1989 , <i>10</i> , 377-389			
DT	Roberts, E., et al., "Potassium permanganate and tetraethylammonium chloride are a safe and effective substitute for osmium tetroxide in solid-phase fluorescent chemical cleavage of mismatch," <i>Nucl. Acids Res.</i> , 1997 , <i>25(16)</i> , 3377-3378			
DU	Rogers, M. V., "Light on high-throughput screening: fluorescence-based assay technologies," <i>Drug Discovery Today</i> , 1997 , <i>2</i> (4), 156-160			
DV	Rowley, G., et al., "Ultrarapid mutation detection by multiplex solid-phase chemical cleavage," <i>Genomics</i> , 1995 , <i>30</i> , 574-582			
EXAMINER		DATE CONSIDER	RED	

COEMPSK C		Sheet 11 of 14			
Form	PTO-1449 Modified	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386		
	List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Applicant Steven L. Roberds, et al.		
			Group Not Yet Assigned		
ОТНЕ	R DOCUMENTS (Including Autho	r, Title, Date, Pertine	nt Pages, Etc.)		
DW	Salkoff, L. et al., "Surfing the DNA Diversity," Neuron, Sept. 1995, 15, 4		nels Nets Yet More		
* DX	Sambrook, et al., <i>Molecular Cloning: A Laboratory Manual</i> , 2 nd Ed., 1989 , Cold Spring Harbor Press, Cold Spring Harbor, New York Sambrook, et al., (Eds.), <i>Molecular Cloning: A Laboratory Manual</i> , 1989, Cold Spring Harbor Laboratory Press: Cold Spring Harbor, New York, 9.47-9.51 Sanger, F., et al., "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> , 1977 , <i>74</i> (12), 5463-5467				
DY					
DZ					
EA	Schaefer, A. J. et al., "DNA variation Biotechnology, Jan. 1998, 16, 33-39	efer, A. J. et al., "DNA variation and the future of human genetics," <i>Nature chnology</i> , Jan. 1998 , <i>16</i> , 33-39			
ЕВ	EB Schroeder, K. S., et al., "FLIPR: A new instrument for accurate, high through optical screening," <i>J. Biomolecular Screening</i> , 1996, 1(2), 75-80 EC Segal, D. J., et al., "Toward controlling gene expression at will: Selection and of zine finger domains recognizing each of the 5'-GNN-3' DNA target sequen <i>Proc. Natl. Acad. Sci. USA</i> , 1999, 96, 2758-2763				
EC					
ED	Receptor RNA Induces Bicuculline-	inobutyric Acid A or C Receptor? γ -Aminobutyric Acid ρ_1 icuculline-, Barbiturate-, and Benzodiazepine-Insensitive γ -onses in <i>Xenopus</i> Oocytes," <i>Molecular Pharmacology</i> , 1992 ,			
EE	Shumaker, J. M., et al., "Mutation detection by solid phase primer extension," Hum. Mutat., 1996, 7, 346-354				
* EF	Smith, et al. (Eds.), "Voltage and Patch Clamping with Microelectrodes, Waverly Press Inc. for the American Physiology Society, 1985				
EG	Smith, T. F., et al., "Comparison of 489	biosequences," Adv. Ap	ppl. Math., 1981 , 2, 482-		
EXAMINER		DATE CONSIDER	RED		

^{*} A copy of these references will not be forwarded to the U.S. Patent and Trademark Office since they are believed to be too voluminous and easily obtainable by the Examiner.

			Sheet 12 of 14	
RADEMARK Form	PTO-1449 Modified	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386	
(Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Steven L. Roberds, et al.		
	U.S. Department of Commerce Patent and Trademark Office		Group Not Yet Assigned	
ОТНЕ	R DOCUMENTS (Including Author	r, Title, Date, Pertin	ent Pages, Etc.)	
ЕН	Smith-Swintosky, V. L., et al., "Prote the rat hippocampus and is associated 69, 1890-1896	ease-activated recepto d with neurodegenerat	r-2 (PAR-2_ is present in tion," J. Neurocham, 1997,	
EI	Stables, J., et al., "A bioluminescent assay for agonist activity at potentially any G-protein-coupled receptor," <i>Analytical Biochemistry</i> , 1997 , <i>252</i> , 115-126 Strosberg, et al., "Functional expression of receptors in microorganisms," <i>Trends in Pharmacological Sciences</i> , 1992 , <i>13</i> , 95-98 Suidan, H. A., et al., "The thrombin receptor in the nervous system," <i>Semin Thromb Hemost</i> , 1996 , <i>22(2)</i> , 125-133 Summers, et al., <i>A Manual of Methods for Baculovirus Vectors and Insect Cell Culture Procedures</i> , Texas Agricultural Experimental Station Bulletin No. 1555, 1987 , 2-46 Sweetnam, P. M., et al., "The role of receptor binding in drug discovery," <i>J. Natural Products</i> , 1993 , <i>56(4)</i> , 441-455 Trejo, J., et al., "The cloned thrombin receptor is necessary and sufficient for activation of mitogen-activated protein kinase and mitogenesis in mouse lung fibroblasts," <i>J. Biol. Chem.</i> , 1996 , <i>271</i> , 21536-21541 Turgeon, V.L., et al., "Thrombin perturbs neurite outgrowth and induces apoptotic cell death in enriched chick spinal motoneuron cultures through caspase activation," <i>J. Neurosci.</i> , 1998 , <i>18(17)</i> , 6882-6891			
EJ				
EK				
EL				
EM				
EN				
ЕО				
ЕР	Ubl, J. J., et al., "Characteristics of the astrocytes," <i>Glia</i> , 1997 , <i>21</i> , 361-369		ium signals in rat	
EXAMINER		DATE CONSIDE	RED	

AUG 2 4 2001

E . • •	·		Sheet 13 01 14	
RADEWAR	PTO-1449 Modified	Docket No. PHRM-0325 (00133.US1)	Serial No. 09/852,386	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Applicant Steven L. Roberds, et al.		
		Filing Date May 10, 2001	Group Not Yet Assigned	
ОТН	ER DOCUMENTS (Including Author	or, Title, Date, Perti	nent Pages, Etc.)	
EQ	Verma, I. M., "Gene therapy," Scienare advertisements)	erma, I. M., "Gene therapy," Scientific American, 1990, 68-84 (pages 73-80 and 83 re advertisements)		
ER	Wahlestedt, C. et al., "Potent and nontoxic antisense oligonucleotides containing locked nucleic acids," <i>PNAS</i> , May 9, 2000 , <i>97(10)</i> , 5633-5638			
ES	Wallis (Ed.), "A Practical Approach	," IRL Press at Oxfo	rd University Press, 1993	
ЕТ	White, M. B., et al., "Detecting single base substitutions as heteroduplex polymorphisms," <i>Genomics</i> , 1992 , <i>12</i> , 301-306			
EU	EU Wieboldt, R., et al., "Immunoaffinity ultrafiltration with ion spray HPLC/MS screening small-molecule libraries," <i>Anal. Chem.</i> , 1997 , <i>69(9)</i> , 1683-1691 EV Williams, M., "Receptor binding in the drug discovery process," <i>Medicinal Releviews</i> , 1991 , <i>11(2)</i> , 147-184			
EV				
EW	Wu, H., et al., "Building zinc finger Proc. Natl. Acad. Sci. USA, 1995, 9	rs by selection: toward a therapeutic application," 92, 344-348		
EXAMINER		DATE CONSID	ERED	

^{*} A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

VC TRADE	MARIE			<u> </u>	Sn	eet 14 of 14
List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce			Docket No. PHRM-0325 (00133.US1) Serial No. 09/852,386			
			Applicant Steven L. Roberds, et al.			
			Filing Date May 10, 2001	Group Not Yet Assigned		
		U. S.	. PATENT DO	CUMENTS		
Examiner Initial		Document No.	Date	Name	Class	Subclass
	EX	4,399,216	08/16/83	Axel, et al.	435	6
	EY	4,683,195	07/28/87	Mullis, et al.	435	6
	EZ	4,683,202	07/28/87	Mullis	435	6
	FA	4,879,236	11/07/89	Smith, et al.	435	235
	FB	5,202,231	04/13/93	Drmanac, et al.	435	6
	FC	5,521,065	05/28/96	Whiteley, et al.	435	6
	FD	5,585,277	12/17/96	Bowie, et al.	436	518
	FE	5,837,832	11/17/98	Chee, et al.	536	22.1
		FOREI	GN PATENT	DOCUMENTS		· · · · · · · · · · · · · · · · · · ·
Examiner Initial		Document No.	ocument No. Date Country		Translation YES NO	
<u>-</u> -	FF	0 367 566 A	05/09/90	EPO		
	FG	WO 91/09955	07/11/91	PCT		
	FH	WO 91/18982	12/12/91	PCT		
	FI	WO 93/11236	06/10/93	PCT		_
	FJ	WO 94/12650	06/09/94	PCT		
	FK	WO 95/20652	08/03/95	PCT		
	FL	WO 96/22976	08/01/96	PCT		·
	FM	WO 98/37177	08/27/98	PCT		
	FN	WO 00/73431 A2	07/12/00	PCT		
EXAMINER			DATE CONSIDE	ERED		